



Atlantic Richfield Company  
(a BP affiliated company)



P.O. Box 6549  
Moraga, California 94570  
Phone: (925) 299-8891  
Fax: (925) 299-8872

December 12, 2005

Re: ARCO Service Station # 2082  
1995 Warburton Avenue  
Santa Clara, California  
Well Destruction Report

"I declare, that to the best of my knowledge at the present time, that the information and/or recommendations contained in the attached document are true and correct.

Submitted by:

Paul Supple  
Environmental Business Manager



December 12, 2005

Mr. Mamerto Jorvina  
Santa Clara County Department of Environmental Health  
1555 Berger Drive, Suite 300  
San Jose, CA 95112-2716

**Re: Well Destruction Report  
ARCO Service Station #2082  
1995 Warburton Avenue  
Santa Clara, California  
SCVWD ID No.: 07S1W03G04f**

Dear Mr. Jorvina:

At the request of Remediation Management (RM – a BP affiliated company), URS Corporation (URS) has prepared this *Well Destruction Report* for the ARCO Service Station #2082 located at 1995 Warburton in Santa Clara, California (the Site, Figure 1). The scope of work consisted of destroying two of the five remaining on-Site groundwater monitoring wells (A-1 and A-5) for RM. Three groundwater monitoring wells (A-2, A-3, A-4) remain on the property for continued monitoring. Well locations are shown on Figure 1.

## **SITE DESCRIPTION**

The Site is located on the eastern corner of the intersection of Warburton Avenue and Scott Boulevard in Santa Clara, California. The Site is an active retail service station with a station building, two fuel dispenser islands, four gasoline underground storage tanks (USTs) and one waste oil UST. Case closure for the Site was granted by the County of Santa Clara Department of Environmental Health (CSCDEH) December 22, 2003.

## **Well Destruction Activities**

URS personnel supervised a California licensed-driller destroy groundwater monitoring wells A-1 and A-5 by pressure grouting the well casings. Well destruction activity details are presented below.

<b><i>Personnel Present:</i></b>	URS Geologists, John McCain (California Professional Geologist No. 8020) and Kirk Martin.
<b><i>Permits:</i></b>	Santa Clara Valley Water District (SCVWD) Permit # 05D00645 (A-1), 05D00646 (A-5).
<b><i>Drilling Company:</i></b>	Gregg Drilling of Martinez, California (C-57 License # 485165).
<b><i>Date of Destruction:</i></b>	October 19, 2005.
<b><i>Number of Wells:</i></b>	Two (2) monitoring wells (A-1 and A-5).

URS Corporation  
1333 Broadway, Suite 800  
Oakland, CA 94612-1924  
Tel: 510.893.3600  
Fax: 510.874.3268

Mr. Mamerto Jorvina  
Page 2 of 2  
December 12, 2005

***Destruction Method:*** Wells were pressure grouted using a neat cement mixture according to SCVWD well destruction guidelines.

***Destruction Notes:*** Two (2) wells were pressure grouted from the bottom to the ground surface using a Tremie pipe applying 25 pound per square inch of pressure for five minutes each. Copies of the Department of Water Resources (DWR) well completion reports are included in Attachment B.

***Soil and Water Handling:*** There were no soil cuttings or rinsate water produced during the destruction activities.

We appreciate the opportunity to present this *Well Destruction Report* to the Santa Clara County Department of Environmental Health on behalf of RM and trust that this document meets with your approval. Please do not hesitate to contact us at (510) 893-3600 with any questions or comments.

Sincerely,

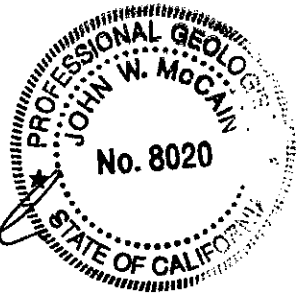
**URS CORPORATION**



Kirk S. Martin  
Geologist



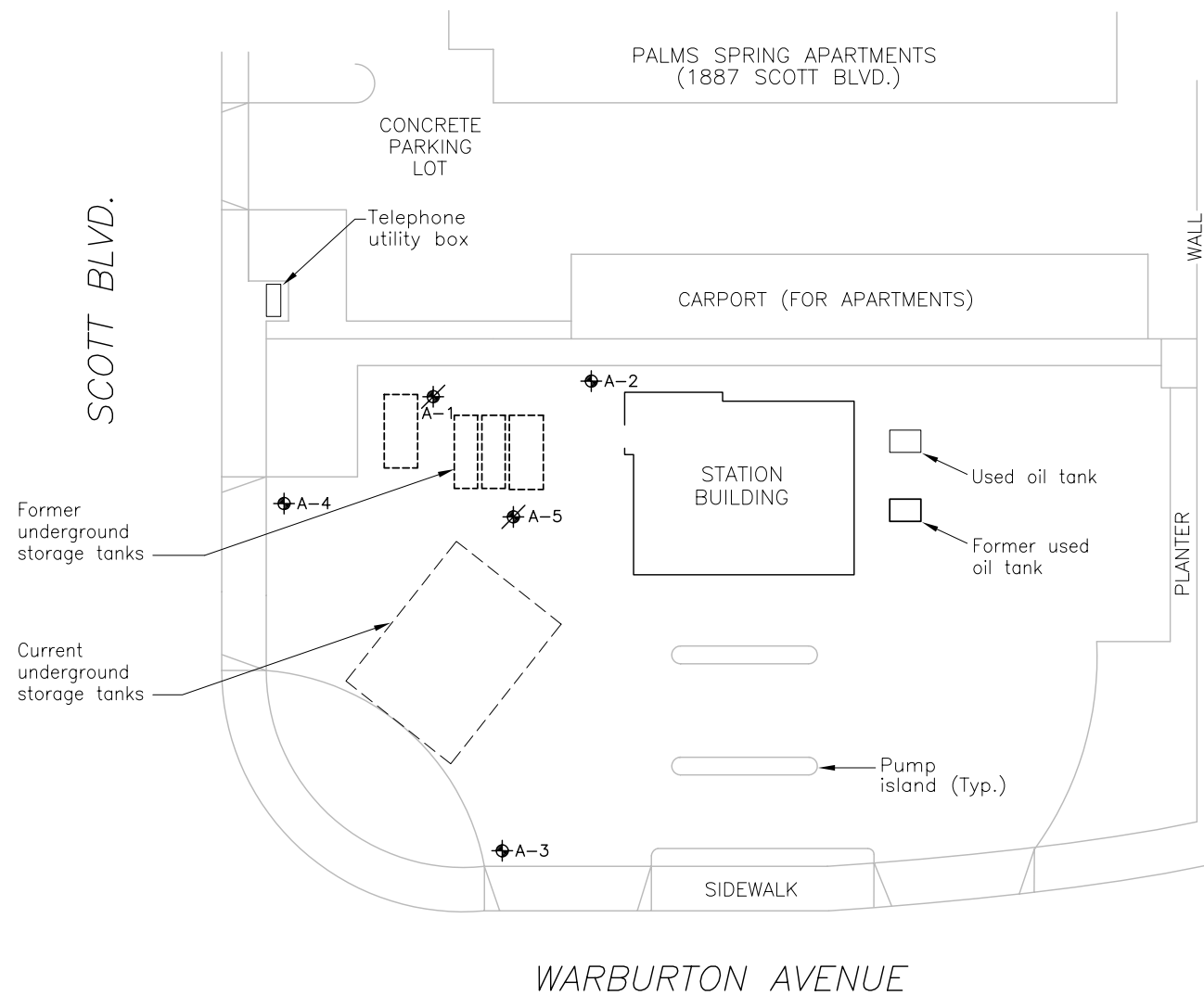
John McCain, P.G.  
Project Manager



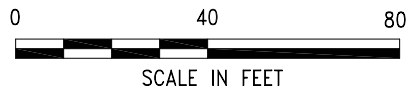
**Attachments:**

Figure 1	Site Map
Table 1	Well Construction and Destruction Details
Attachment A	SCVWD Well Destruction Permits
Attachment B	DWR Well Completion Reports (original copy submitted to SCVWD Wells Division)

cc: Mr. Paul Supple, RM (electronic copy uploaded to ENFOS)



NORTH



**URS**

Project No. 38487375

Former Arco Service Station #2082  
1995 Warburton Avenue  
Santa Clara, California

**SITE MAP**

FIGURE

**1**

## Summary of Well Construction and Destruction Details

ARCO Station #2082  
1995 Warburton Avenue, Santa Clara, CA  
Well Destruction Details

No.	Well ID	Well Type	Well Diameter (inches)	Screened Interval (feet)	Depth to bottom of boring (feet bgs)	Well Destruction Method
1	A-1	Monitoring	3	18 - 43.5	46.50	Pressure Grout
2	A-2	Monitoring	3	19.5 - 50	53.00	Left In Place
3	A-3	Monitoring	3	19.5 - 50	51.50	Left In Place
4	A-4	Monitoring	3	21.5 - 50	51.50	Left In Place
5	A-5	Monitoring	3	20 - 40	45.00	Pressure Grout

Notes:

bgs = Below ground surface

**Attachment A**  
SCVWD Well Destruction Permits

5750 ALMADEN EXPRESSWAY, SAN JOSE, CA 95118-3686

Please complete all information.

DISTRICT PERMIT NO.:

05D00645

Well Owner: Atlantic Richfield Company	Property Owner: Atlantic Richfield Company	Name of Business/Residence at Well Site: ARCO Service Station # 2082
Well Owner's Mailing Address: P.O. Box 6549	Property Owner's Mailing Address: P.O. Box 6549	Address of Well Site: 1995 Warburton Ave.
City, State, Zip: Moraga, CA 94570	City, State, Zip: Moraga, CA 94570	City, State, Zip: Santa Clara, CA
Telephone No.: 925-299-8891	Telephone No.: 925-299-8891	Assessor's Parcel Number of Well Site: Book: 224 Page: 57 Parcel: 002
Consultant: URS Corporation	Drilling Company: Gregg Drilling	
Address: 1333 Broadway, Suite 800	Address: 950 Howe Road	
City, State, Zip: Oakland CA 94612	City, State, Zip: Martinez, CA 94553	
Telephone No.: 510-874-3026 Attn: John McCain	Telephone No.: 925-313-5800	C-57 License No.: 485165
<input type="checkbox"/> Check if address or phone number has changed.	<input type="checkbox"/> Check if address or phone number has changed.	

All questions below are to be completed before permit can be issued; if unknown, applicant shall make on-site investigation to determine correct answers.

Well Information

Well Registration No.: 07501W03B003	Owner/Consultant Well No.: A-1	Original Well Construction Permit No.: 88W1729
Well Casing Depth: 43.5'	Total Boring Depth: 46.5'	Well Casing Diameter: 3"

THIS SECTION TO BE COMPLETED FOR ALL MONITORING WELLS OR EXTRACTION/RECOVERY WELLS

CASE NAME: ARCO Service Station

Oversight Agency: Santa Clara Co. Env. Health If under S.C.V.W.D. oversight, list Case Number(s):

☐ Well on SCVWD property/easement\* ☐ Well is within 50 feet of the top of a creek/river bank\* (\* See General Conditions, E.)

Well Description:

☒ Vertical Well ☐ Dewatering Well ☐ Elevator Shaft ☐ Multiple Casing ☐ Horizontal Well ☐ Pit Well

Well Type: check all that apply

☐ Water Producing (supply or extraction) ☐ Contamination Cleanup ☐ Agricultural ☐ Domestic ☐ Municipal & Industrial ☐ Vapor Extraction

☒ Monitoring ☐ Inclinator ☒ Groundwater ☐ Vadose ☐ Piezometer ☐ Interface ☐ Suction Lysimeter ☐ Seismic

☐ Injection/Infiltration ☐ Contamination Cleanup ☐ Reclaimed Water ☐ Air Sparging

☐ Cathodic Protection

Additional Questions For Water Producing Wells

Does the well have:

1. Outer conductor casing? ☐ Yes ☒ No

2. Annular cement seal outside of casing at surface? ☐ Yes ☒ No

3. A S.C.V.W.D. water meter attached? ☐ Yes ☒ No

Type of Original Drilling Method:

☐ Rotary ☐ Cable-Tool ☐ Hand Dug Pit Well ☒ Hollow Stem Auger ☐ Other:

IMPORTANT

A minimum 24-hour notice must be given to SCVWD prior to installing the annular seal.  
Call (408) 265-2607 Ext. 2660. For weekends, holidays, after hours call (408) 265-2607, Ext. 2120.  
Please allow 10 working days to process permit application.

SEP 9 2005

S.C.V.W.D.  
WELLS

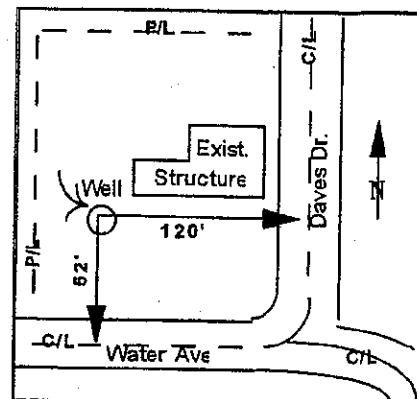
Site Plan

WELL LOCATION

(Draw accurately; recommend using assessor's map)

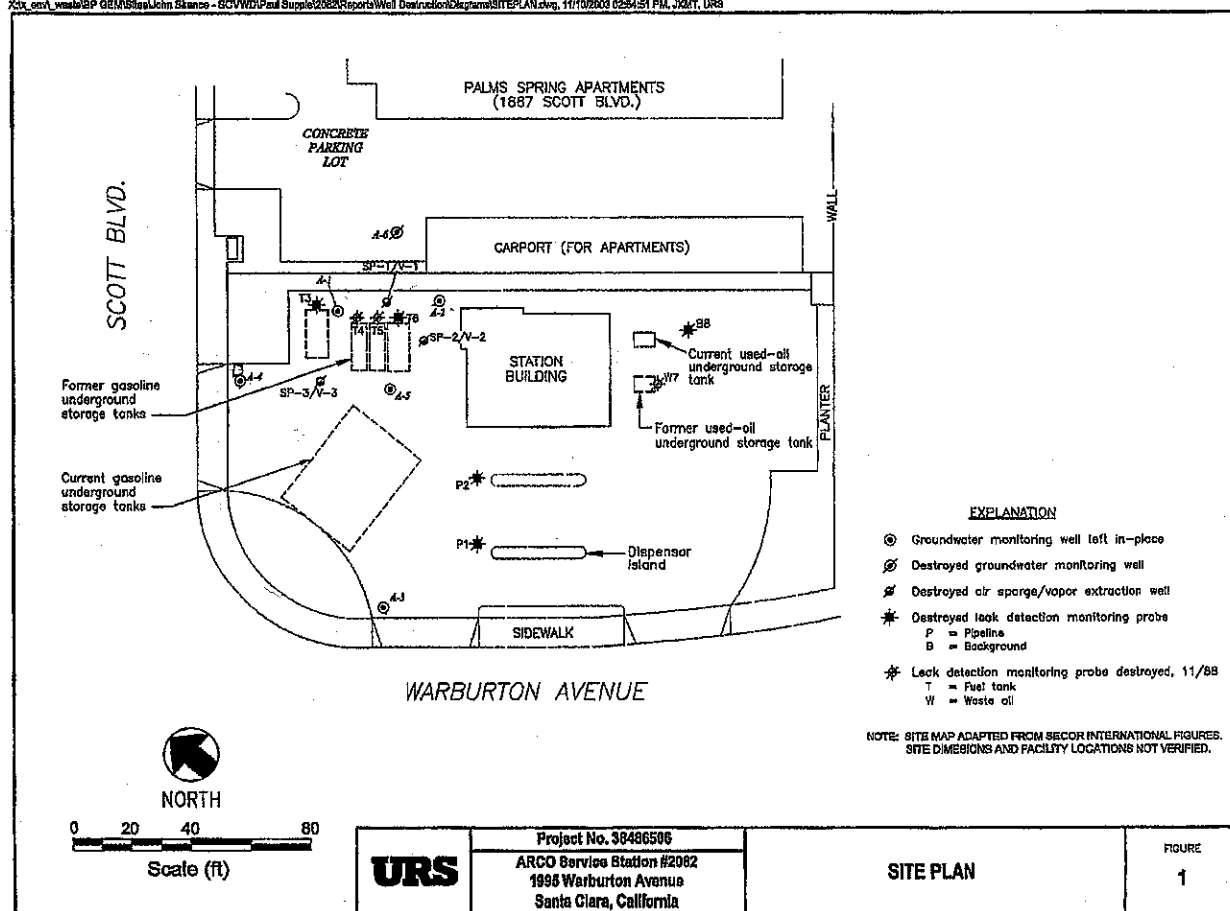
1. Sketch well location to scale, show dimensions to nearest foot. (Do not attach separate map.)
2. Show a minimum of two dimensions at right angles. Dimensions shall be from the centerline of the closest named streets, roads, or highways.

EXAMPLE →



Sketch well location as described above:

X:\x\_on\wells\SP GEMS\ass\John Blance - SCVWD\Paul Supple\2082\Reports\Well Destruction\Diagram\SITEPLAN.dwg, 11/10/2003 02:54:51 PM, JGB/T, URS





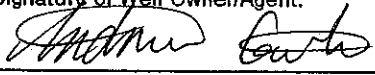

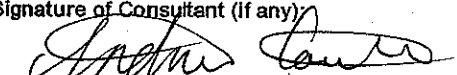
Please describe, in detail, the proposed destruction method\*: \_\_\_\_\_

Well destruction via pressure grout according to SCVWD guidelines.

\*Any well destruction in which the well casing is left in place and in which the well has a filter pack outside the casing, must be destroyed using approved neat cement grout.

I understand that all work is to be done in accordance with the District Well Ordinance, the District Well Standards, and the conditions of this permit (see page 4). I also certify that the information given in this permit is correct.

NOTE: All applicable signatures must be present before permit will be processed.

Signature of Well Owner/Agent: 	Print Name: Andrew Fowler / URS for Atlantic Richfield Co	Date: 9/7/05
Signature of Driller/Agent: 	Print Name: Andrew Fowler / URS for Gregg Drilling	Date: 9/7/05
Signature of Consultant (if any): 	Print Name: Andrew Fowler URS	Date: 9/7/05

DISTRICT USE ONLY

The District has approved the following destruction methods for the well described in this permit:

☒ Pressure Grout Method (as outlined in Standards).


NOTE: Neat cement is the only sealing material approved for pressure grouting.

☒ Drill out well to a total depth of 46 feet, with a minimum bore of 8 inches.

☐ Clean out well casing to a total depth of \_\_\_\_\_ feet and back fill with approved sealing material (if total depth is unknown, driller must determine total depth during clean out of well). NOTE: Neat cement is the only sealing material approved for back filling gravel packed wells.

☐ Well casing must be perforated at the following depths prior to backfilling: \_\_\_\_\_

☐ Other: \_\_\_\_\_

Permit Approved By: 		Date: 9-14-05	
District Permit No.: 05D00645	Date Issued: 9-23-05	Expiration Date: 3-23-06	Driller's Log No.: 030225

Please allow 10 working days to process this application.

**GENERAL CONDITIONS**

- A. SCVWD (Telephone 408-265-2607, Ext. 2660) MUST BE NOTIFIED A MINIMUM OF ONE WORKING DAY BEFORE THE PLACEMENT OF THE WELL DESTRUCTION SEALING MATERIALS. An authorized District representative must be on site to witness the destruction activities. This requirement may be waived by an authorized District representative. If the District waives the inspection requirement, the District may request the Permittee(s) to furnish certification under penalty of perjury that the well was destroyed in accordance with the District Well Standards and with the permit conditions.
- B. This Permit is valid only for the purpose specified herein. Well destruction methods authorized under this Permit may not be changed except by written approval of an authorized District representative, and only if the District believes that such a change will result in equal or superior compliance with the District and State Well Standards (e.g. if the District representative believes that site conditions warrant such a change).
- C. This Permit is only valid for the Assessor's Parcel Number indicated on it.
- D. This Permit may be voided if it contains any incorrect information. If the permit is voided after work has begun, the well or boring that is being destroyed under this permit may be required to be reconstructed in accordance with District and State Well Standards.
- E. If any work associated with this permit will take place within 50 feet of the top of the banks of a stream or watercourse, or on SCVWD property, an encroachment or construction permit must be granted by the District's Community Projects Review Unit (telephone (408) 2652607, Ext. 2350, 2217, or 2253).
- F. Within 60 days of the completion of well destruction activities, the driller or consultant identified on this permit shall fully complete State of California DWR Form 188 and submit the original to the District's Wells and Water Production Unit.
- G. The Permittee(s) shall assume entire responsibility for all activities and uses under this Permit and shall indemnify, defend, and hold the District, its officers, agents, and employees free and harmless from any and all expense, cost, and liability in connection with or resulting from, the granting of or exercise of this Permit including, but not limited to, property damage, personal injury, and wrongful death.
- H. Permittees are required to be in full compliance with Cal/OSHA California Labor Code Section 6300.
- I. A current C-57 Water Well Drilling Contractors License is required for the destruction of all wells.
- J. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all materials generated during drilling, well destruction, well development, pump testing, or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials/waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways. Such materials/waters shall not be allowed to move off the property where the work is being completed.
- K. The driller and consultant (if applicable) shall have an active copy of their Worker's Compensation Insurance on file with the District.
- L. This Permit shall expire if not exercised within 180 calendar days of its approval unless an extension of the permit expiration date is granted in writing by an authorized District representative.
- M. If the well approved to be destroyed under this permit is a monitoring well, associated with an investigation/cleanup overseen by a regulatory agency, the proposed well destruction must be approved by the person with regulatory authority over the investigation/cleanup.
- N. This permit shall be kept on-site during the completion of all activities associated with it and shall immediately be presented to an authorized District representative upon request.

Please allow 10 working days to process this application.

Santa Clara Valley Water District



WELL INSPECTION COMPLETION NOTICE  
FC 15BA (02-06-86) (DP 4-901)

FROM: Groundwater Protection Section

DATE: 10-6-88

Well Permit No. 88W1729

Well/Boring No. A-1 07S1W03B02A

Inspector Marc Canter

Date of Inspection 10-5-88

Well Owner ARCO

Address of Well Site 1795 Warburton Ave

City or County S.C.

Drilling Co. All Terrain

Consultant PEG

Purpose of Well:

- ☐ Domestic  
☐ Agricultural  
☐ Municipal/Industrial  
☐ Cathodic Protection

\*Monitoring Well Use

- ☐ Vadose  
☒ Groundwater  
☐ Other

1. Well completed according to provisions of Santa Clara Valley Water District Permit ☒ Yes ☐ No (If "No", see comments below)  
2. Depth of Surface Annular Seal = 16'

Comments: T.D. 45'

Distribution: White = Groundwater Protection Sect. Pink = Cities or County (w/attach) Canary = Permittee Goldenrod = Water Revenue

Santa Clara Valley Water District  
5750 Almaden Expressway  
San Jose, California 95118  
Telephone (408) 265-2600

# WELL CONSTRUCTION APPLICATION

FC 158 (02-06-86) (DP 4.901)

## TO BE COMPLETED BY DISTRICT

Well Permit No.: <u>88W1729</u>	Date Issued: <u>10-4-88</u>	Well Registration No.: <u>0751W03B02A</u>
Water Quality Zone: <u>1</u>	Expiration Date: <u>1-4-89</u>	Driller's Log No.: <u>254650</u>
Coordinates of Well: "X" _____ "Y" _____		

## TO BE COMPLETED BY OWNER AND DRILLER

Property Owner: <u>ARCO PETROLEUM PRODUCTS CO.</u>	Well Owner (if different): _____	Drilling Co.: <u>ALL TERRAIN DRILLING</u>
Address: <u>2000 ALAMEDA DE LAS PULGAS</u>	ADDRESS OF WELL SITE: <u>1995 WARBURTON AVE.</u>	Driller's Contractors License Number (CS7 REQ'D): <u>C57-437836</u>
City, State, Zip: <u>SAN MATEO, CA 94403</u>	City, State, Zip: <u>SANTA CLARA, CA 95050</u>	Address: <u>2739 LIBERTY LANE</u>
Telephone No.: <u>415-571-2434</u>	Telephone No.: _____	City, State, Zip: <u>ROSEVILLE, CA 95678</u>
Assessor's Parcel No. of Well Site: Book <u>22A</u> Page <u>51</u> Parcel <u>002</u>	Owner's/Consultant's Well No.: <u>A-1</u>	Telephone No.: <u>916-771-0222</u>

Estimated depth of completed well: ☒ Less than 50 ft. ☐ 50 to 300 ft. ☐ Over 300 ft.  
Water Quality Zone No. 1 (See Fig. 1 SCVWD Construction Standards. Use "BR" if bedrock).  
Purpose of Well: ☐ Domestic ☐ Municipal/Industrial ☐ Agricultural ☒ Monitoring ☐ Cathodic Protection

\*Monitoring wells are those constructed for the purpose of obtaining repetitive water level measurements and/or repetitive water samples for analyses. This includes wells constructed for general exploration and investigation purposes as well as those to be constructed in conformance with the Hazardous Materials Storage Permit Ordinance for the purpose of existing underground hazardous materials storage tanks.

## THIS SECTION TO BE COMPLETED FOR ALL WELLS EXCEPT DOMESTIC WATER WELLS

Purpose of Monitoring Well: ☐ To comply with City or County Hazardous Materials Storage Permit Ordinance ☒ Exploration/Study ☐ Extraction/Recovery  
☐ Other (specify): \_\_\_\_\_

NAME OF BUSINESS AT WELL SITE: GASOLINE SERVICE STATION

If this well is to be installed in compliance with a Hazardous Materials Storage Permit Ordinance has the City or County been contacted? ☐ Yes ☐ No

Name of City or County: \_\_\_\_\_  
Consultant's Name (company): PACIFIC ENVIRONMENTAL GROUP, INC.

Address: 1601 CIVIC CENTER DRIVE, SUITE 202

City, State, Zip: SANTA CLARA, CA 95050

Telephone No.: (408) 984-6536

Type of monitoring device: <input checked="" type="checkbox"/> Groundwater <input type="checkbox"/> Vadose	Monitoring well use: <input type="checkbox"/> Depth <input type="checkbox"/> Quality <input checked="" type="checkbox"/> Depth and Quality
	<input type="checkbox"/> Chloride <input type="checkbox"/> Depth and Chloride
Vadose device installation: <input type="checkbox"/> Vapor <input type="checkbox"/> Interface <input type="checkbox"/> Suction Lysimeter	Signature of Responsible Professional: <u>FOR SUSAN WILCHITE</u>
Registration No. _____ OR Certificate No. <u>CEG 1272</u>	

## TOPOGRAPHIC FEATURES

Is well to be constructed: ☐ In a public sidewalk ☐ In a public road ☐ On public property ☒ On private property  
Within 50 ft. of the top of a creek bank: ☐ Yes ☒ No  
Within 50 ft. of a sanitary sewer: ☐ Yes ☒ No  
Within 100 ft. of a pit privy, septic tank, leachfield: ☐ Yes ☒ No  
Within 50 ft. of any existing well: ☐ Yes ☒ No  
Within 150 ft. of a cesspool or seepage pit: ☐ Yes ☒ No  
Plot well location on reverse side of this application

## CERTIFICATION BY WELL OWNER/AGENT AND DRILLER/AGENT

I certify that the information given above is correct to the best of my knowledge. I certify that the well will be constructed in compliance with the conditions of this permit, the Santa Clara Valley Water District's Ordinance 85-1 and, if applicable, the Hazardous Materials Storage Permit Ordinance of the County or City, as appropriate. It is my responsibility as the well owner to notify this District of any changes in the purpose of this well from that which is indicated on this application in form.

For ARCO PETROLEUM PRODUCTS CO. 9/30/88  
Date

For ALL TERRAIN DRILLING 9/30/88  
Date

## MONITORING WELL PLAN APPROVAL

City/County: \_\_\_\_\_  
Approved by: \_\_\_\_\_  
Date: \_\_\_\_\_

IMPORTANT: A minimum 24-hour notice must be given to SCVWD Well Inspection Dept. prior to installing the annular seal. Call (408) 265-2600 Ext. 300. For weekends, holidays after hours call (408) 395-8121 or (408) 265-2605.

(2)

ORIGINAL  
File with DWR

STATE OF CALIFORNIA  
THE RESOURCES AGENCY  
DEPARTMENT OF WATER RESOURCES  
WATER WELL DRILLERS REPORT

Do not fill in

No. 254650

Notice of Intent No. \_\_\_\_\_

Local Permit No. or Date 88W729

State Well No. 0751W03803A

Other Well No. A-1

(1) OWNER: Name ARCO Petroleum Products  
Address 2000 Alameda de las Pulgas  
City San Mateo, CA ZIP 94403

(12) WELL LOG: Total depth 46.5 ft. Completed depth 43.5 ft.

from ft. to ft. Formation (Describe by color, character, size or material)

0	-	1	Fill - asphalt
1	-	9	Silt - black
9	-	18	Clay - olive gray
18	-	38.5	Interbedded silt & clayey sand
38.5	-	46	Clayey sand
46	-	46.5	Clay & dark gray

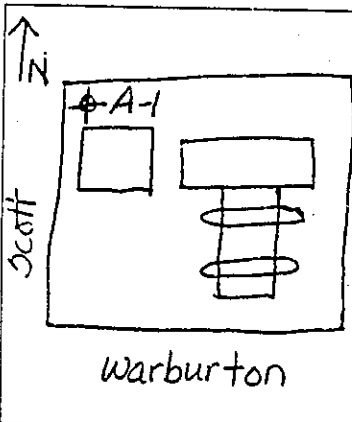
(2) LOCATION OF WELL (See instructions):

County San Clara Owner's Well Number A-1

Well address if different from above 1995 Warburton Ave

Township Santa Clara Range \_\_\_\_\_ Section \_\_\_\_\_

Distance from cities, roads, railroads, fences, etc. \_\_\_\_\_



WELL LOCATION SKETCH

(3) TYPE OF WORK

New Well ☒ Deepening ☐

Reconstruction ☐

Reconditioning ☐

Horizontal Well ☐

Destruction ☐ (Describe destruction materials and procedures in Item 12)

(4) PROPOSED USE

Domestic ☐

Irrigation ☐

Industrial ☐

Test Well ☐

Municipal ☐

Other ☒ (Describe) Monitoring

(5) EQUIPMENT

Rotary ☐

Reverse ☐

Cable ☐

Air ☐

Other ☒ Hollow stem

Buck ☐

(6) GRAVEL PACK

Yes ☒ No ☐

Size 12 x 20

Thickness of bore 8"

Packed from 16 to 43.5 ft.

(7) CASING INSTALLED

Steel ☐

Plastic ☒

Concrete ☐

(8) PERFORATIONS

Type of perforation or size of screen

From ft.	To ft.	Dia. in.	Gage or Wall	From ft.	To ft.	Slot size
0	43.5	3	40	18	43.5	0.020"

(9) WELL SEAL:

Was surface sanitary seal provided? Yes ☒ No ☐ If yes, to depth 16 ft.

Were strata sealed against pollution? Yes ☐ No ☐ Interval \_\_\_\_\_ ft.

Method of sealing Concrete and Bentonite

(10) WATER LEVELS:

Depth of first water, if known \_\_\_\_\_ ft.

Standing level after well completion 28.7 ft.

(11) WELL TESTS:

Was well test made? Yes ☐ No ☐ If yes, by whom? \_\_\_\_\_

Type of test \_\_\_\_\_

Length to water at start of test \_\_\_\_\_ ft.

Discharge \_\_\_\_\_ gal. min. after \_\_\_\_\_ hour.

Chemical analysis made? Yes ☒ No ☐ If yes, by whom? TECI

Was electric log made? Yes ☐ No ☒ If yes, attach copy to this report

Work started 10-5 1988 Completed 10-5 1988

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Signed Ima Berry for

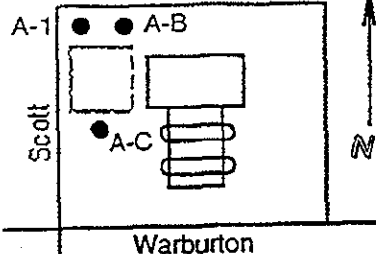
NAME All Terrain Drilling

Address 2759 Liberty Ln.

City Roseville, CA ZIP 95678

License No. C57-H37836 Date of this report 1/6/89

## LOCATION MAP



## PACIFIC ENVIRONMENTAL GROUP, INC.

WELL / A-1  
BORING NO.  
PAGE 1 OF 2

PROJECT NO. 330-42.01  
LOGGED BY: JN  
DRILLING METHOD: HSA  
SAMPLING METHOD: CALMOD  
CASING TYPE: Sch 40 PVC  
SLOT SIZE: 0.020"  
GRAVEL PACK: 12 X 20 SAND

CLIENT: ARCO  
DATE DRILLED: 10-5-88  
LOCATION: Scott & Warburton  
HOLE DIAMETER: 8"  
HOLE DEPTH: 46.5'  
WELL DEPTH: 43.5'  
WELL DIAMETER: 3"

WELL COMPLETION	MOISTURE CONTENT	H-NU READING	PENETRATION RESISTANCE (BLOWS/FT)	DEPTH (FEET)	SAMPLE	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
CONCRETE				2			ML	FILL; asphalt.
				4				SILT; black; low plasticity; 10-20% fine to coarse sand; rootlet holes.
				6				@5': as above; color change to light olive brown; no product odor.
				8				
				10			CL	CLAY; olive gray; moderate plasticity; 5-10% fine sand; rootlet holes; iron staining; firm; no product odor.
				12				
				14				
				16				@15': as above; color change to very dark gray; firm; moderate product odor.
				18			ML/SC	SILT, CLAYEY SAND - INTERBEDDED; SILT: olive gray; low plasticity; 10-15% fine to coarse sand; rootlet holes; CLAYEY SAND: olive gray; 10-20% fines; fine to coarse sand; 0-5% fine to coarse gravel.
				20				@20': stiff; moderate product odor.
BENTONITE				22				
				24				
				26				@25': as above; very stiff; faint product odor.
				28				
				30				@30': as above; SILT: color change to dark gray; firm; no product odor.
				32				
				34				
				36				@35': as above; very stiff; no product odor.
				38				
				40			SC	CLAYEY SAND; very dark gray; 10-20% fines; fine to coarse sand; dense; no product odor.
SAND				42				
				44				
CAVED								

LOCATION MAP

See Page One

PACIFIC ENVIRONMENTAL GROUP, INC.

WELL / A-1  
BORING NO.  
PAGE 2 OF 2PROJECT NO. 330-42.01  
LOGGED BY:  
DRILLING METHOD:  
SAMPLING METHOD:  
CASING TYPE:  
SLOT SIZE:  
GRAVEL PACK:CLIENT:  
DATE DRILLED:  
LOCATION:  
HOLE DIAMETER:  
HOLE DEPTH:  
WELL DEPTH:  
WELL DIAMETER:

WELL COMPLETION	MOISTURE CONTENT	H - NU READING	PENETRATION RESISTANCE (BLOWS/FT)	DEPTH (FEET)	SAMPLE	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
CAVED	Sat Dp	0.0	27	46			SC	CLAYEY SAND - continued.
				48			CL	@45': as above.
				50				CLAY; dark gray; moderate plasticity; 0-5% fine sand;
				52				medium dense; no product odor.
				54				BOTTOM OF BORING AT 46.5'
				56				
				58				
				60				
				62				
				64				
				66				
				68				
				70				
				72				
				74				
				76				
				78				
				80				
				82				
				84				
				86				
				88				



APN: 22451002  
1995 Warburton Ave  
Santa Clara CA  
95050

Well Annotations- 19 Wells Selected

No	Well_nbr	Permit	Consulnum	Status	Easting	Northing
1	07S01W03B002	03D00502	A2082-8B	Destroyed	6137696	1955450
2	07S01W03B003	88W1729	A-1	Other-Active	6137525	1955452
3	07S01W03B004	89W0705	A-2	Other-Active	6137589	1955455
4	07S01W03B005	89W0706	A-3	Other-Active	6137564	1955367
5	07S01W03B006	89W0707	A-4	Other-Active	6137521	1955442
6	07S01W03B007	91W1890	A-5	Other-Active	6137581	1955428
7	07S01W03B008	03D00507	V-2	Destroyed	6137595	1955434
8	07S01W03B009	03D00508	V-3	Destroyed	6137561	1955420
9	07S01W03B010	03D00505	SP-3	Destroyed	6137560	1955419
10	07S01W03B011	03D00503	SP-1	Destroyed	6137578	1955445
11	07S01W03B012	03D00506	V-1	Destroyed	6137578	1955446
12	07S01W03B013	03D00504	SP-2	Destroyed	6137594	1955434
13	UNREGISTERED	03D00509	P-1	Destroyed	6137567	1955458
14	UNREGISTERED	03D00510	P-2	Destroyed	6137553	1955458
15	UNREGISTERED	03D00511	T-3	Destroyed	6137540	1955435
16	UNREGISTERED	03D00512	T-4	Destroyed	6137573	1955457
17	UNREGISTERED	03D00513	T-5	Destroyed	6137559	1955464
18	UNREGISTERED	03D00514	T-6	Destroyed	6137573	1955445
19	UNREGISTERED	03D00515	W-7	Destroyed	6137646	1955405

Wells.shp

- Water Supply - Active
- Water Supply - Standby
- Water Supply - Inactive
- Extraction (Env) - Active
- Extraction (Env) - Inactive
- Other - Active
- Other - Inactive
- Abandoned
- Destroyed
- Status Undetermined

Parcels.shp  
VALFLOOR.SHP

- Zone 1
- Zone 2
- Zone 3
- Zone 4
- Zone 5

Approximate Scale

30 0 30 60 Feet



5750 ALMADEN EXPRESSWAY, SAN JOSE, CA 95118-3686

Please complete all information.

DISTRICT PERMIT NO.:

05D00646

Well Owner: Atlantic Richfield Company	Property Owner: Atlantic Richfield Company	Name of Business/Residence at Well Site: ARCO Service Station # 2082
Well Owner's Mailing Address: P.O. Box 6549	Property Owner's Mailing Address: P.O. Box 6549	Address of Well Site: 1995 Warburton Ave
City, State, Zip: Moraga, CA 94570	City, State, Zip: Moraga, CA 94570	City, State, Zip: Santa Clara, CA
Telephone No.: 925-299-8891	Telephone No.: 925-299-8891	Assessor's Parcel Number of Well Site: Book: 224 Page: 51 Parcel: 002
Consultant: URS Corporation	Drilling Company: Gregg Drilling	
Address: 1333 Broadway, Suite 800	Address: 950 Howe Road	
City, State, Zip: Oakland, CA 94612	City, State, Zip: Martinez, CA 94553	
Telephone No.: 510-874-3026 Attn: John McCain	Telephone No.: 925-313-5800	C-57 License No.: 485165
<input type="checkbox"/> Check if address or phone number has changed.	<input type="checkbox"/> Check if address or phone number has changed.	

All questions below are to be completed before permit can be issued; if unknown, applicant shall make on-site investigation to determine correct answers.

## Well Information

Well Registration No.: 07501W03B007	Owner/Consultant Well No.: A-5	Original Well Construction Permit No.: 91W1890
Well Casing Depth: 40'	Total Boring Depth: 45'	Well Casing Diameter: 3"

## THIS SECTION TO BE COMPLETED FOR ALL MONITORING WELLS OR EXTRACTION/RECOVERY WELLS

CASE NAME: ARCO Service Station

Oversight Agency: Santa Clara Co. Env. Health If under S.C.V.W.D. oversight, list Case Number(s):

<input type="checkbox"/> Well on SCVWD property/easement*	<input type="checkbox"/> Well is within 50 feet of the top of a creek/river bank*	(* See General Conditions, E.)
Well Description:		
<input checked="" type="checkbox"/> Vertical Well	<input type="checkbox"/> Dewatering Well	<input type="checkbox"/> Elevator Shaft
<input type="checkbox"/> Multiple Casing	<input type="checkbox"/> Horizontal Wall	<input type="checkbox"/> Pit Well
Well Type: check all that apply		
<input type="checkbox"/> Water Producing (supply or extraction)	<input type="checkbox"/> Contamination Cleanup	<input type="checkbox"/> Agricultural
<input type="checkbox"/> Domestic	<input type="checkbox"/> Municipal & Industrial	<input type="checkbox"/> Vapor Extraction
<input checked="" type="checkbox"/> Monitoring	<input type="checkbox"/> Inclinator	<input checked="" type="checkbox"/> Groundwater
<input type="checkbox"/> Vadose	<input type="checkbox"/> Piezometer	<input type="checkbox"/> Interface
<input type="checkbox"/> Suction Lysimeter	<input type="checkbox"/> Seismic	
<input type="checkbox"/> Injection/Infiltration	<input type="checkbox"/> Contamination Cleanup	<input type="checkbox"/> Reclaimed Water
<input type="checkbox"/> Air Sparging		
<input type="checkbox"/> Cathodic Protection		

## Additional Questions For Water Producing Wells

Does the well have:	1. Outer conductor casing?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
	2. Annular cement seal outside of casing at surface?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
	3. A S.C.V.W.D. water meter attached?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

Type of Original Drilling Method:

<input type="checkbox"/> Rotary	<input type="checkbox"/> Cable-Tool	<input type="checkbox"/> Hand Dug Pit Well	<input checked="" type="checkbox"/> Hollow Stem Auger	<input type="checkbox"/> Other:
---------------------------------	-------------------------------------	--	---	---------------------------------

## IMPORTANT

A minimum 24-hour notice must be given to SCVWD prior to installing the annular seal.  
Call (408) 265-2607 Ext. 2660. For weekends, holidays, after hours call (408) 265-2607, Ext. 2120.  
Please allow 10 working days to process permit application.

SEP 9 2005

S.C.V.W.D.

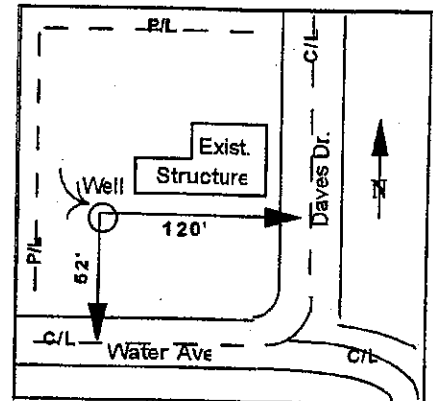
Site Plan

WELL LOCATION

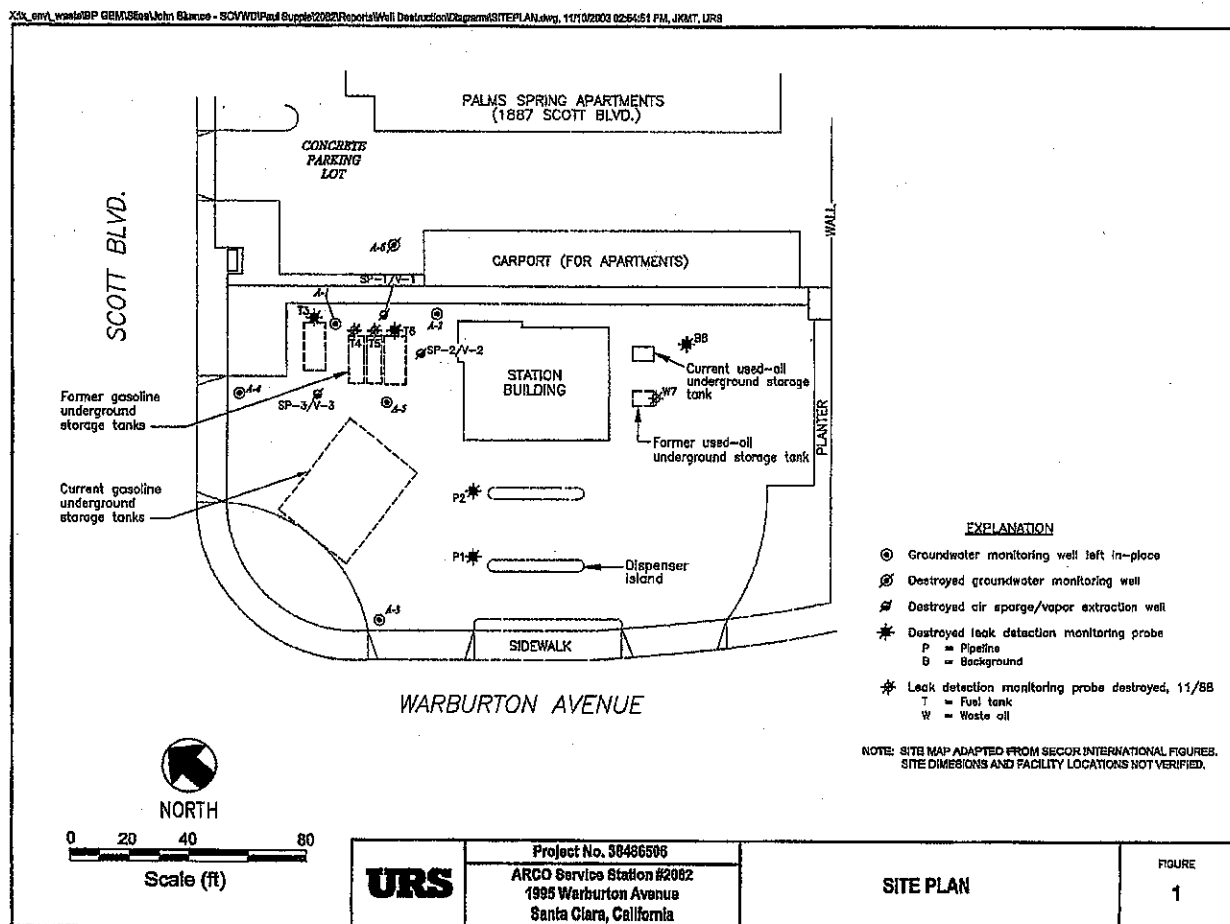
(Draw accurately; recommend using assessor's map)

1. Sketch well location to scale, show dimensions to nearest foot. (Do not attach separate map.)
2. Show a minimum of two dimensions at right angles. Dimensions shall be from the centerline of the closest named streets, roads, or highways.

EXAMPLE →



Sketch well location as described above:





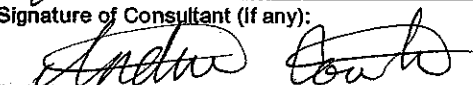
Please describe, in detail, the proposed destruction method\*:

Well destruction via pressure grout according to SCVWD guidelines.

\* Any well destruction in which the well casing is left in place and in which the well has a filter pack outside the casing, must be destroyed using approved neat cement grout.

I understand that all work is to be done in accordance with the District Well Ordinance, the District Well Standards, and the conditions of this permit (see page 4). I also certify that the information given in this permit is correct.

NOTE: All applicable signatures must be present before permit will be processed.

Signature of Well Owner/Agent: 	Print Name: Andrew Fowler / URS for Atlantic Richfield Co	Date: 9/7/05
Signature of Driller/Agent: 	Print Name: Andrew Fowler / URS for Gregg Drilling	Date: 9/7/05
Signature of Consultant (if any): 	Print Name: Andrew Fowler URS	Date: 9/7/05

DISTRICT USE ONLY

The District has approved the following destruction methods for the well described in this permit:

☒ Pressure Grout Method (as outlined in Standards).


NOTE: Neat cement is the only sealing material approved for pressure grouting.

☒ Drill out well to a total depth of 45 feet, with a minimum bore of 8 inches.

☐ Clean out well casing to a total depth of \_\_\_\_\_ feet and back fill with approved sealing material (if total depth is unknown, driller must determine total depth during clean out of well). NOTE: Neat cement is the only sealing material approved for back filling gravel packed wells.

☐ Well casing must be perforated at the following depths prior to backfilling: \_\_\_\_\_

☐ Other: \_\_\_\_\_

Permit Approved By: 		Date: 9-14-05	
District Permit No.: 05D00646	Date Issued: 9-23-05	Expiration Date: 3-23-06	Driller's Log No.: 030227

Please allow 10 working days to process this application.

**GENERAL CONDITIONS**

- A. SCVWD (Telephone 408-265-2607, Ext. 2660) MUST BE NOTIFIED A MINIMUM OF ONE WORKING DAY BEFORE THE PLACEMENT OF THE WELL DESTRUCTION SEALING MATERIALS. An authorized District representative must be on site to witness the destruction activities. This requirement may be waived by an authorized District representative. If the District waives the inspection requirement, the District may request the Permittee(s) to furnish certification under penalty of perjury that the well was destroyed in accordance with the District Well Standards and with the permit conditions.
- B. This Permit is valid only for the purpose specified herein. Well destruction methods authorized under this Permit may not be changed except by written approval of an authorized District representative, and only if the District believes that such a change will result in equal or superior compliance with the District and State Well Standards (e.g. If the District representative believes that site conditions warrant such a change).
- C. This Permit is only valid for the Assessor's Parcel Number indicated on it.
- D. This Permit may be voided if it contains any incorrect information. If the permit is voided after work has begun, the well or boring that is being destroyed under this permit may be required to be reconstructed in accordance with District and State Well Standards.
- E. If any work associated with this permit will take place within 50 feet of the top of the banks of a stream or watercourse, or on SCVWD property, an encroachment or construction permit must be granted by the District's Community Projects Review Unit (telephone (408) 2652607, Ext. 2350, 2217, or 2253).
- F. Within 60 days of the completion of well destruction activities, the driller or consultant identified on this permit shall fully complete State of California DWR Form 188 and submit the original to the District's Wells and Water Production Unit.
- G. The Permittee(s) shall assume entire responsibility for all activities and uses under this Permit and shall indemnify, defend, and hold the District, its officers, agents, and employees free and harmless from any and all expense, cost, and liability in connection with or resulting from, the granting of or exercise of this Permit including, but not limited to, property damage, personal injury, and wrongful death.
- H. Permittees are required to be in full compliance with Cal/OSHA California Labor Code Section 6300.
- I. A current C-57 Water Well Drilling Contractors License is required for the destruction of all wells.
- J. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all materials generated during drilling, well destruction, well development, pump testing, or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials/waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways. Such materials/waters shall not be allowed to move off the property where the work is being completed.
- K. The driller and consultant (if applicable) shall have an active copy of their Worker's Compensation Insurance on file with the District.
- L. This Permit shall expire if not exercised within 180 calendar days of its approval unless an extension of the permit expiration date is granted in writing by an authorized District representative.
- M. If the well approved to be destroyed under this permit is a monitoring well, associated with an investigation/cleanup overseen by a regulatory agency, the proposed well destruction must be approved by the person with regulatory authority over the investigation/cleanup.
- N. This permit shall be kept on-site during the completion of all activities associated with it and shall immediately be presented to an authorized District representative upon request.

Please allow 10 working days to process this application.

Santa Clara Valley Water District



# WELL INSPECTION COMPLETION NOTICE

FC 158A (07-26-89) (DP 4-901)

From: WELL SECTION	Date: 9/19/91	Permit No.: 91W1890
Inspector: RICKY C. CHAN	Date of Inspection: 9/10/91	Well Registration No.: A-5 0751W03R06A
Well Owner: ARCO		
Address of Well Site: 1995 WARBURTON	City or County: SANTA CLARA	
Drilling Company: WEST HAZMAT	Consultant: PEG (SANTA CLARA)	

## PURPOSE OF WELL:

- ☐ Domestic
- ☐ Agricultural
- ☐ Municipal/Industrial
- ☐ Cathodic Protection

## \*Monitoring Well Use

- ☐ \*Vadose
- ☒ \*Groundwater
- ☐ \*Other

1. Well completed according to provisions of Santa Clara Valley Water District Permit ☒ Yes ☐ No (If "No", see comments below)
2. Depth of Surface Annular Seal = 18'

Comments: TD = 45', SCREEN = 20'-40', BENT BACKFILL, SAND TO 18'  
3" PVC, BENT = 3', NEAT CEMENT, 4 S. A.

Distribution: White - Well Section Yellow - Water Revenue Pink - Permittee Goldenrod - City/County

①

Santa Clara Valley Water District  
5750 Almaden Expressway, San Jose, CA 95118 (408) 265-2600

WELL CONSTRUCTION APPLICATION  
FC 158 (12-08-89) (DP 4-901)

Proj. 330-42.06

TO BE COMPLETED BY DISTRICT		
Permit No.: 91W1890	Date issued: 9/5/91	Well Registration No.: 07SIW03B06A
Geologic Setting: 1	Expiration Date: 3/5/92	Driller's Log No.: 397415

TO BE COMPLETED BY OWNER AND DRILLER		
Property Owner: ARCO	Well Owner (if different):	Drilling Co.: WEST HAZMAT
Address: PO Box 5811	Address of Well Site: 1995 Warkurton	Driller's Contractors License Number (C-57 Req'd): C57-554979
City, State, Zip: San Mateo, Ca	City, State, Zip: Santa Clara, Ca	Address: 3233 Fitzgerald
Telephone No.:	Telephone No.:	City, State, Zip: RENO, Nevada, Ca
Assessor's Parcel No. of Well site: Book 224 Page 51 Parcel 002	Owner's/Consultant's Well No.: A-5	Telephone No.: (916) 638-7276

Estimated depth of completed well: ☒ Less than 50 ft. ☐ 50 to 300 ft. ☐ Over 300 ft.  
Purpose of Well: ☐ Domestic ☐ Municipal/Industrial ☐ Agricultural ☒ \*Monitoring ☐ Cathodic Protection  
\*Monitoring wells are those constructed for the purpose of obtaining repetitive water level measurements and/or repetitive air samples for analysis. This includes wells constructed for general exploration and investigation purposes as well as those to be constructed in conformance with the Hazardous Materials Storage Permit Ordinance for site-specific groundwater monitoring of existing underground hazardous materials storage tanks.

THIS SECTION TO BE COMPLETED FOR ALL MONITORING WELLS OR EXTRACTION/RECOVERY WELLS  
Purpose of Monitoring Well: ☐ To comply with City or County Hazardous Materials Storage Permit Ordinance ☒ Exploration studies  
☐ Other (specify): ☐ Extraction/Recovery

NAME OF BUSINESS AT WELL SITE: ARCO SERVICE STATION  
If proposed well is to meet compliance with a Hazardous Materials Storage Permit Ordinance has the City or County been contacted? ☐ Yes ☐ No  
If yes, give name of City or County:

Consultant's Name (Company): Pacific Environmental Group, Inc.	Type of monitoring device: <input checked="" type="checkbox"/> Groundwater <input type="checkbox"/> Vadose
Address: 1601 Civic Center Drive, Suite 202	Monitoring well use: <input checked="" type="checkbox"/> Depth <input checked="" type="checkbox"/> Quality <input type="checkbox"/> Chloride
City, State, Zip: Santa Clara, California 95050	Vadose device installation: <input type="checkbox"/> Vapor <input type="checkbox"/> Interface <input type="checkbox"/> Suction Lysimeter
Telephone No.: (408) 984-6536	Signature of Responsible Professional (No substitution of signature will be accepted): D. J. FILLMORE
	Registration No. Civil Engineer OR Certificate No. Engineering Geologist: CEG 1293

TOPOGRAPHIC FEATURES  
Well is to be constructed: ☐ In a public sidewalk ☐ In a public road ☐ On public property ☒ On private property ☐ On SCVWD property  
Within 50 ft. of the top of a creek bank: ☐ Yes ☒ No Within 50 ft. of any existing well: ☐ Yes ☒ No  
Within 50 ft. of a sanitary sewer: ☐ Yes ☒ No Within 150 ft. of a cesspool or seepage pit: ☐ Yes ☒ No  
Within 100 ft. of a pit privy, septic tank, leachfield: ☐ Yes ☒ No Other wells exist on this property: ☒ Yes ☐ No  
Status: ☒ Active ☐ Inactive ☐ Abandoned

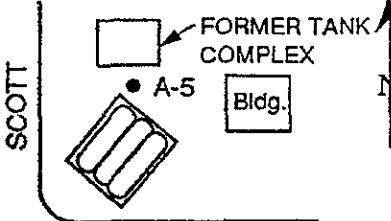
CERTIFICATION BY WELL OWNER/AGENT AND DRILLER/AGENT:  
I certify that the information given above is correct to the best of my knowledge. I certify that the well will be constructed in compliance with the conditions of this permit, the Santa Clara Valley Water District's Ordinance 85-1 and, if applicable, the Hazardous Materials Storage Permit Ordinance of the County or City, as appropriate. It is my responsibility as the well owner to notify this District of any changes in the purpose of this well from that which is indicated on this application form.

Signature of Well Owner/Agent: [Signature]	Date: 8/27/91	MONITORING WELL PLAN APPROVAL City/County: _____ Approved by: _____ Date: _____
Signature of Driller/Agent: [Signature]	Date: 8/27/91	

IMPORTANT: A minimum 24-hour notice must be given to SCVWD Well Inspection Dept. prior to installing the annular seal. Call (408) 927-0710 Ext. 660. For weekends, holidays, after hours call (408) 395-8121 or (408) 927-0710.



# LOCATION MAP



NORTHING EASTING ELEVATION

575.71 496.25 66.52

## PACIFIC ENVIRONMENTAL GROUP, INC.

WELL/BORING NO. A-5

PAGE 1 OF 2

PROJECT NO. 330-42.06  
 LOGGED BY: JC  
 DRILLER: WHM  
 DRILLING METHOD: HSA  
 SAMPLING METHOD: CAL MOD  
 CASING TYPE: Sch 40 PVC  
 SLOT SIZE: 0.020"  
 GRAVEL PACK: 2 x 12 SAND

CLIENT: ARCO  
 DATE DRILLED: 9-10-91  
 LOCATION: 1995 Warburton  
 HOLE DIAMETER: 8"  
 HOLE DEPTH: 45'  
 WELL DIAMETER: 3"  
 WELL DEPTH: 40'  
 CASING STICKUP: NA

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
CEMENT SOLID CASING SAND BENTONITE				2			CL	ASPHALT: fill; baserock
				4			SP	CLAY; very dark brown; low plasticity.
	Mst	0	push	6			SC	SAND - FILL; light yellowish brown; well sorted fine sand.
				8			CL	CLAYEY SAND; 30-40% clayey fines; fine to coarse sand; 10-15% gravel; medium dense; no product odor.
	V. Mst	2	push	10			SM	CLAY; light olive brown; low plasticity; iron oxide mottling; 15-20% fine sand; stiff; no product odor.
				12			CL	SILTY SAND; yellowish brown; 10-15% silty fines; some clay; very fine to fine sand; very moist; medium dense; no product odor.
	Mst	2	14	14			CL	CLAY; dark gray; moderate plasticity; 5-10% very fine sand; caliche; moist; stiff; no product odor.
				16				
	V. Mst	8	39	18			SP	SAND; gray; 0-5% fines; fine to coarse; medium dense; faint product odor.
				20			CL	CLAY; dark gray; moderate plasticity; 5-10% very fine sand; caliche; moist; stiff; no product odor.
				22			SP	SAND; olive gray; 0-5% fines; fine to coarse sand; medium dense; faint product odor.
	Mst	12	19	24				
				26				
	Wt	0	13	28			CL	CLAY; moderate plasticity; 10-15% fine sand; organic matter; stiff; no product odor.
				30			SC	CLAYEY SAND; gray; 15-20% clayey fines; fine sand; medium dense; no product odor.
				32			ML/SM	SILT, SILTY SAND INTERBEDDED; gray; some clay; low plasticity; 15-20% fine sand; organic matter; interbeds of Silty Sand; some clay; 25-35% silty fines; fine sand; medium dense; no product odor.
	V. Mst	0	14	34				
				36				
	V. Mst	0	14	38				
				40				@40': minor sand and clay 2-4" lenses; gradational contacts; stiff; no product odor.
				42				
				44			SP	SAND; as above.



LOCATION MAP

PACIFIC ENVIRONMENTAL GROUP, INC.

WELL/BORING NO. A-5

PAGE 2 OF 2

See Page One

PROJECT NO. 330-42.06

LOGGED BY:

DRILLER:

DRILLING METHOD:

SAMPLING METHOD:

CASING TYPE:

SLOT SIZE:

GRAVEL PACK:

CLIENT:

DATE DRILLED:

LOCATION:


HOLE DIAMETER:

HOLE DEPTH:

WELL DIAMETER:

WELL DEPTH:

CASING STICKUP:

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
 BENTONITE	Wt		26	46	.....	SP		SAND; as above.
				48				BOTTOM OF BORING AT 45'
				50				
				52				
				54				
				56				
				58				
				60				
				62				
				64				
				66				
				68				
				70				
				72				
				74				
				76				
				78				
				80				
				82				
				84				
				86				
				88				



Well Annotations - 19 Wells Selected

APN: 22451002  
1995 Warburton Ave  
Santa Clara CA  
95050

No	Well_nbr	Permit	Consultnum	Status	Easting	Northing
1	07S01W03B002	03D00502	A2082-8B	Destroyed	6137696	1955450
2	07S01W03B003	88W1729	A-1	Other-Active	6137525	1955452
3	07S01W03B004	89W0705	A-2	Other-Active	6137589	1955455
4	07S01W03B005	89W0706	A-3	Other-Active	6137564	1955367
5	07S01W03B006	89W0707	A-4	Other-Active	6137521	1955442
6	07S01W03B007	91W1890	A-5	Other-Active	6137581	1955428
7	07S01W03B008	03D00507	V-2	Destroyed	6137695	1955434
8	07S01W03B009	03D00508	V-3	Destroyed	6137561	1955420
9	07S01W03B010	03D00505	SP-3	Destroyed	6137560	1955419
10	07S01W03B011	03D00503	SP-1	Destroyed	6137578	1955445
11	07S01W03B012	03D00506	V-1	Destroyed	6137578	1955446
12	07S01W03B013	03D00504	SP-2	Destroyed	6137594	1955434
13	UNREGISTERED	03D00509	P-1	Destroyed	6137567	1955458
14	UNREGISTERED	03D00510	P-2	Destroyed	6137553	1955458
15	UNREGISTERED	03D00511	T-3	Destroyed	6137540	1955435
16	UNREGISTERED	03D00512	T-4	Destroyed	6137573	1955457
17	UNREGISTERED	03D00513	T-5	Destroyed	6137559	1955454
18	UNREGISTERED	03D00514	T-6	Destroyed	6137573	1955445
19	UNREGISTERED	03D00515	W-7	Destroyed	6137646	1955405

- Wells.shp
- Water Supply - Active
  - Water Supply - Standby
  - Water Supply - Inactive
  - Extraction (Env) - Active
  - Extraction (Env) - Inactive
  - Other - Active
  - Other - Inactive
  - Abandoned
  - Destroyed
  - Status Undetermined
- Parcels.shp
- Fuelleak.shp
- VALFLOOR.SHP
- Zone 1
  - Zone 2
  - Zone 3
  - Zone 4
  - Zone 5

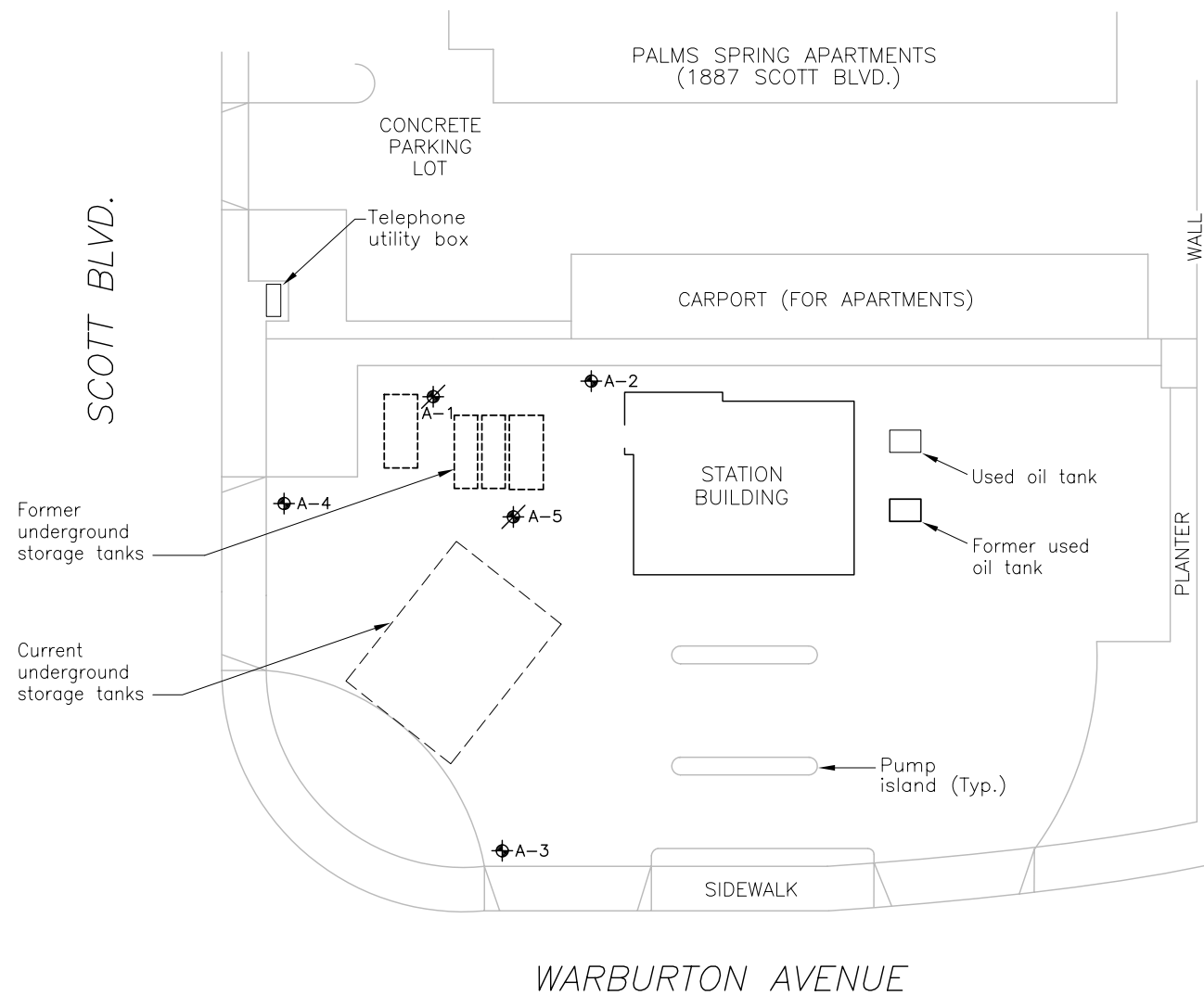
Approximate Scale

30 0 30 60 Feet

**Attachment B**

DWR Well Completion Reports

(Original copy submitted to the SCVWD Wells Division)



EXPLANATION:

- ◆ Groundwater monitoring well left in-place
- ✱ Destroyed groundwater monitoring well

NOTE: SITE MAP ADAPTED FROM SECOR INTERNATIONAL FIGURES.  
SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.



NORTH

0 40 80  
SCALE IN FEET

**URS**

**Project No. 38487375**

**Former Arco Service Station #2082  
1995 Warburton Avenue  
Santa Clara, California**

**SITE MAP**

FIGURE

**1**

ORIGINAL  
File with DWR

STATE OF CALIFORNIA  
**WELL COMPLETION REPORT**

Refer to Instruction Pamphlet

DWR USE ONLY — DO NOT FILL IN

0 7 5 0 1 W 0 3 B 0 0 3											
STATE WELL NO./STATION NO.											
LATITUDE						LONGITUDE					
APN/TRS/OTHER											

Page \_\_\_\_ of \_\_\_\_

Owner's Well No. A-1

No. e030225

Date Work Began 10/19/05, Ended 10/19/05

Local Permit Agency SCVWD

Permit No. 05D00645 Permit Date 9-23-05

**GEOLOGIC LOG**

**WELL OWNER**

ORIENTATION ( ) ☐ VERTICAL ☐ HORIZONTAL ☐ ANGLE \_\_\_\_ (SPECIFY)

Name Atlantic Richfield Co.

Mailing Address P.O. Box 6599

Moraga CA 94570

CITY STATE ZIP

DEPTH FROM SURFACE

DRILLING METHOD

FLUID

DESCRIPTION

Describe material, grain size, color, etc.

FL. to FL.

0 43.5 Pressure grouted well per

SCVWD Requirements.

**WELL LOCATION**

Address 1995 Warburton Ave.

City Santa Clara

County Santa Clara

APN Book 224 Page 51 Parcel 002

Township \_\_\_\_ Range \_\_\_\_ Section \_\_\_\_

Latitude \_\_\_\_ NORTH Longitude \_\_\_\_ WEST

DEG. MIN. SEC.

DEG. MIN. SEC.

**LOCATION SKETCH**

NORTH

See Attached Map

**ACTIVITY ( )**

☐ NEW WELL

☐ MODIFICATION/REPAIR

☐ Deepen

☐ Other (Specify)

☒ DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")

**PLANNED USES ( )**

WATER SUPPLY

☐ Domestic ☐ Public  
☐ Irrigation ☐ Industrial

MONITORING ☐

TEST WELL ☐

CATHODIC PROTECTION ☐

HEAT EXCHANGE ☐

DIRECT PUSH ☐

INJECTION ☐

VAPOR EXTRACTION ☐

SPARGING ☐

REMEDICATION ☐

OTHER (SPECIFY) \_\_\_\_

SOUTH

Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. PLEASE BE ACCURATE & COMPLETE.

**WATER LEVEL & YIELD OF COMPLETED WELL**

DEPTH TO FIRST WATER \_\_\_\_ (Ft.) BELOW SURFACE

DEPTH OF STATIC

WATER LEVEL \_\_\_\_ (Ft.) & DATE MEASURED \_\_\_\_

ESTIMATED YIELD \* \_\_\_\_ (GPM) & TEST TYPE \_\_\_\_

TEST LENGTH \_\_\_\_ (Hrs.) TOTAL DRAWDOWN \_\_\_\_ (Ft.)

\* May not be representative of a well's long-term yield.

TOTAL DEPTH OF BORING 46.5 (Feet)

TOTAL DEPTH OF COMPLETED WELL 43.5 (Feet)

DEPTH FROM SURFACE			BORE-HOLE DIA. (Inches)	CASING (S)						DEPTH FROM SURFACE	ANNULAR MATERIAL						
				TYPE ( )				MATERIAL / GRADE	INTERNAL DIAMETER (Inches)		GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)	TYPE				
Ft.	to	Ft.	BLANK	SCREEN	CON- DUCTOR	FILL PIPE									Ft.	to	Ft.
0	18	8	X				PVC	3	40	—							
18	43.5	8	X				PVC	3	40	.020							

**ATTACHMENTS ( )**

- ☒ Geologic Log  
☒ Well Construction Diagram  
☐ Geophysical Log(s)  
☐ Soil/Water Chemical Analyses  
☒ Other Well Dest. Notice

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

**CERTIFICATION STATEMENT**

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME Kirk S. Martin (URS)

(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

1333 Broadway #800, Oakland, CA 94612

ADDRESS CITY STATE ZIP

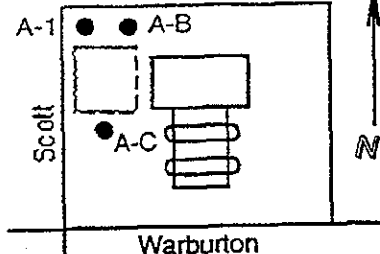
Signed Kirk S. Martin for Gregg 12-27-05 485165

WELL DRILLER AUTHORIZED REPRESENTATIVE

DATE SIGNED

C-57 LICENSE NUMBER

# LOCATION MAP



## PACIFIC ENVIRONMENTAL GROUP, INC.

WELL / A-1  
BORING NO.  
PAGE 1 OF 2

PROJECT NO. 330-42.01  
LOGGED BY: JN  
DRILLING METHOD: HSA  
SAMPLING METHOD: CAL MOD  
CASING TYPE: Sch 40 PVC  
SLOT SIZE: 0.020"  
GRAVEL PACK: 12 X 20 SAND

CLIENT: ARCO  
DATE DRILLED: 10-5-88  
LOCATION: Scott & Warburton  
HOLE DIAMETER: 8"  
HOLE DEPTH: 46.5'  
WELL DEPTH: 43.5'  
WELL DIAMETER: 3"

WELL COMPLETION	MOISTURE CONTENT	H-NU READING	PENETRATION RESISTANCE (BLOWS/FT)	DEPTH (FEET)	SAMPLE GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
				2		ML	FILL; asphalt.
				4			SILT; black; low plasticity; 10-20% fine to coarse sand; rootlet holes.
				6			@5': as above; color change to light olive brown; no product odor.
				8			
				10		CL	CLAY; olive gray; moderate plasticity; 5-10% fine sand; rootlet holes; iron staining; firm; no product odor.
				12			
				14			@15': as above; color change to very dark gray; firm; moderate product odor.
				16			
				18		ML/SC	SILT, CLAYEY SAND - INTERBEDDED; SILT: olive gray; low plasticity; 10-15% fine to coarse sand; rootlet holes; CLAYEY SAND: olive gray; 10-20% fines; fine to coarse sand; 0-5% fine to coarse gravel.
				20			@20': stiff; moderate product odor.
				22			
				24			@25': as above; very stiff; faint product odor.
				26			
				28			
				30			@30': as above; SILT: color change to dark gray; firm; no product odor.
				32			
				34			@35': as above; very stiff; no product odor.
				36			
				38			
				40		SC	CLAYEY SAND; very dark gray; 10-20% fines; fine to coarse sand; dense; no product odor.
				42			
				44			

CONCRETE

BENTONITE

SAND

CAVED

LOCATION MAP

See Page One

PACIFIC ENVIRONMENTAL GROUP, INC.

WELL / A-1  
BORING NO.  
PAGE 2 OF 2PROJECT NO. 330-42.01  
LOGGED BY:  
DRILLING METHOD:  
SAMPLING METHOD:  
CASING TYPE:  
SLOT SIZE:  
GRAVEL PACK:CLIENT:  
DATE DRILLED:  
LOCATION:  
HOLE DIAMETER:  
HOLE DEPTH:  
WELL DEPTH:  
WELL DIAMETER:

WELL COMPLETION	MOISTURE CONTENT	H - NU READING	PENETRATION RESISTANCE (BLOWS/FT)	DEPTH (FEET)	SAMPLE	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
CAVED	Sat Dp	0.0	27	46			SC CL	CLAYEY SAND - continued. @45': as above. CLAY; dark gray; moderate plasticity; 0-5% fine sand; medium dense; no product odor. BOTTOM OF BORING AT 46.5'
				48				
				50				
				52				
				54				
				56				
				58				
				60				
				62				
				64				
				66				
				68				
				70				
				72				
				74				
				76				
				78				
				80				
				82				
				84				
				86				
				88				

Permit No. 05D00646 Permit Date 9-23-05

DWR/USE ONLY — DO NOT FILL IN									
0	7	S	0	/	0	3	B	0	7
STATE WELL NO./STATION NO.									
LATITUDE					LONGITUDE				
APN/TRS/OTHER									

GEOLOGIC LOG				WELL OWNER			
ORIENTATION (≡) <input type="checkbox"/> VERTICAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/> ANGLE <input type="checkbox"/> (SPECIFY)				Name <u>Atlantic Richfield Co.</u>			
DRILLING METHOD <input type="checkbox"/> FLUID <input type="checkbox"/>				Mailing Address <u>P.O. Box 6549</u>			
DEPTH FROM SURFACE				<u>Moraga</u> <u>CA</u> <u>94570</u>			
Ft. to Ft.				CITY STATE ZIP			
0 40				Address <u>1995 Warburton Ave</u>			
DESCRIPTION				City <u>Santa Clara</u>			
Describe material, grain size, color, etc.				County <u>Santa Clara</u>			
Pressure grouted well per SCUD Requirements				APN Book <u>224</u> Page <u>51</u> Parcel <u>002</u>			
				Township _____ Range _____ Section _____			
				Latitude _____ Longitude _____			
				DEG. MIN. SEC. NORTH DEG. MIN. SEC. WEST			
				LOCATION SKETCH			
				NORTH			
				See Attached Map			
				WEST EAST			
				SOUTH			
				Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. PLEASE BE ACCURATE & COMPLETE.			
				WATER LEVEL & YIELD OF COMPLETED WELL			
				DEPTH TO FIRST WATER _____ (Ft.) BELOW SURFACE			
				DEPTH OF STATIC WATER LEVEL _____ (Ft.) & DATE MEASURED _____			
				ESTIMATED YIELD * _____ (GPM) & TEST TYPE _____			
				TEST LENGTH _____ (Hrs.) TOTAL DRAWDOWN _____ (Ft.)			
				* May not be representative of a well's long-term yield.			
TOTAL DEPTH OF BORING <u>45</u> (Feet)							
TOTAL DEPTH OF COMPLETED WELL <u>40</u> (Feet)							

[illegible]

**ATTACHMENTS (    )**

  10   Geologic Log

  10   Well Construction Diagram

     Geophysical Log(s)

     Soil/Water Chemical Analyses

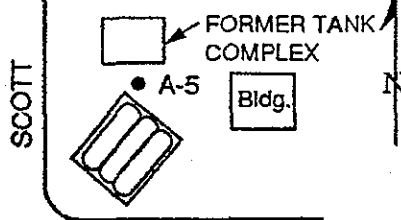
  10   Other Well Dest. Notice

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

<p align="center"><b>CERTIFICATION STATEMENT</b></p> <p>I, the undersigned, certify that this report is complete, and accurate to the best of my knowledge and belief.</p>			
<p>NAME <u>Kirk S. Martin (VRS)</u></p> <p>(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)</p>			
<p>ADDRESS <u>1333 Broadway #800, Oakland, CA 94612</u></p> <p>CITY STATE ZIP</p>			
<p>Signed <u>K.S. Martin for Gregg</u> 12/27/05 485165</p> <p>WELL DRILLER/AUTHORIZED REPRESENTATIVE DATE SIGNED C-57 LICENSE NUMBER</p>			



## LOCATION MAP



NORTHING EASTING ELEVATION  
575.71 496.25 66.52

## PACIFIC ENVIRONMENTAL GROUP, INC.

WELL/BORING NO. A-5

PAGE 1 OF 2

PROJECT NO. 330-42.06  
LOGGED BY: JC  
DRILLER: WHM  
DRILLING METHOD: HSA  
SAMPLING METHOD: CAL MOD  
CASING TYPE: Sch 40 PVC  
SLOT SIZE: 0.020"  
GRAVEL PACK: 2 x 12 SAND

CLIENT: ARCO  
DATE DRILLED: 9-10-91  
LOCATION: 1995 Warburton  
HOLE DIAMETER: 8"  
HOLE DEPTH: 45'  
WELL DIAMETER: 3"  
WELL DEPTH: 40'  
CASING STICKUP: NA

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
CEMENT SOLID CASING BENTONITE SAND				2			CL	ASPHALT: fill; baserock
				4			SP	CLAY; very dark brown; low plasticity.
	Mst	0	push	6			SC	SAND - FILL; light yellowish brown; well sorted fine sand.
				8			CL	CLAYEY SAND; 30-40% clayey fines; fine to coarse sand; 10-15% gravel; medium dense; no product odor.
	V. Mst	2	push	10			SM	CLAY; light olive brown; low plasticity; iron oxide mottling; 15-20% fine sand; stiff; no product odor.
				12			CL	SILTY SAND; yellowish brown; 10-15% silty fines; some clay; very fine to fine sand; very moist; medium dense; no product odor.
	Mst	2	14	14				CLAY; dark gray; moderate plasticity; 5-10% very fine sand; caliche; moist; stiff; no product odor.
				16				
	V. Mst	8	39	18			SP	SAND; gray; 0-5% fines; fine to coarse; medium dense; faint product odor.
				20			CL	CLAY; dark gray; moderate plasticity; 5-10% very fine sand; caliche; moist; stiff; no product odor.
				22			SP	SAND; olive gray; 0-5% fines; fine to coarse sand; medium dense; faint product odor.
	Mst	12	19	24				
				26				
	Wt	0	13	28			CL	CLAY; moderate plasticity; 10-15% fine sand; organic matter; stiff; no product odor.
				30			SC	CLAYEY SAND; gray; 15-20% clayey fines; fine sand; medium dense; no product odor.
	V. Mst	0	14	32			ML/SM	SILT, SILTY SAND INTERBEDDED; gray; some clay; low plasticity; 15-20% fine sand; organic matter; interbeds of Silty Sand; some clay; 25-35% silty fines; fine sand; medium dense; no product odor.
	V. Mst	0	14	38				
				40				@40': minor sand and clay 2-4" lenses; gradational contacts; stiff; no product odor.
				42				
				44			SP	SAND; as above.

LOCATION MAP

PACIFIC ENVIRONMENTAL GROUP, INC.

WELL/BORING NO. A-5

PAGE 2 OF 2

See Page One

PROJECT NO. 330-42.06

LOGGED BY:

DRILLER:

DRILLING METHOD:

SAMPLING METHOD:

CASING TYPE:

SLOT SIZE:

GRAVEL PACK:

CLIENT:

DATE DRILLED:

LOCATION:



HOLE DIAMETER:

HOLE DEPTH:

WELL DIAMETER:

WELL DEPTH:

CASING STICKUP:

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
 BENTONITE	Wt		26	46		.....	SP	SAND; as above.  BOTTOM OF BORING AT 45'
				48				
				50				
				52				
				54				
				56				
				58				
				60				
				62				
				64				
				66				
				68				
				70				
				72				
				74				
				76				
				78				
				80				
				82				
				84				
				86				
				88				

# WELL DESTRUCTION COMPLETION NOTICE

FCE 218 (08-14-98)

Inspector: <b>Thiemann</b>		Date of Inspection: <b>10/19/05</b>		Permit: <b>OSD00645</b>	
Owner/Consultant No.: <b>A-1</b>		Well Registration No.: <b>07501W03B003</b>			
Well Owner: <b>Atlantic Richfield Co.</b>		Address of Well Site: <b>1995 Warburton</b>		City or County: <b>SC</b>	
Drilling Company: <b>Gregg</b>		Consultant: <b>LRS</b>			
Well Depth: <b>42</b>	Borehole Diameter: <b>8"</b>	Casing Diameter: <b>3"</b>	Casing Material: <b>PVC</b>	Well Type: <input checked="" type="checkbox"/> HSA <input type="checkbox"/> Rotary <input type="checkbox"/> Other (see comments) <input type="checkbox"/> Direct Push <input type="checkbox"/> Cable Tool	
Casing Perforated: <b>0</b> to <b>0</b>			Sealing Material: <input checked="" type="checkbox"/> Neat Cement <input type="checkbox"/> 10 Sack Sand Slurry <input type="checkbox"/> Bentonite <input type="checkbox"/> Other (See Comments)		
Destruction Method: <input checked="" type="checkbox"/> Pressure Grout <input type="checkbox"/> Drill Out <input type="checkbox"/> Excavate <input type="checkbox"/> Bail, Perf, & Backfill <input type="checkbox"/> Bail & Backfill <input type="checkbox"/> Other (See Comments)					
Well destroyed according to provisions of Santa Clara Valley Water District Permit? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (See Comments)					
GPS Coordinates: Lat: Long:					
Comments:					

Distribution: ORIGINAL-Permit File; YELLOW-City/County; PINK-Well File; GOLDENROD-Permittee

# WELL DESTRUCTION COMPLETION NOTICE

FCE 218 (08-14-98)

Inspector: <b>Thiemann</b>		Date of Inspection: <b>10/19/05</b>		Permit: <b>OSD00646</b>	
Owner/Consultant No.: <b>A-5</b>		Well Registration No.: <b>07501W03B007</b>			
Well Owner: <b>Atlantic Richfield Co.</b>		Address of Well Site: <b>1995 Warburton</b>		City or County: <b>SC</b>	
Drilling Company: <b>Gregg</b>		Consultant: <b>LRS</b>			
Well Depth: <b>40</b>	Borehole Diameter: <b>8"</b>	Casing Diameter: <b>3"</b>	Casing Material: <b>PVC</b>	Well Type: <input checked="" type="checkbox"/> HSA <input type="checkbox"/> Rotary <input type="checkbox"/> Other (see comments) <input type="checkbox"/> Direct Push <input type="checkbox"/> Cable Tool	
Casing Perforated: <b>0</b> to <b>0</b>			Sealing Material: <input checked="" type="checkbox"/> Neat Cement <input type="checkbox"/> 10 Sack Sand Slurry <input type="checkbox"/> Bentonite <input type="checkbox"/> Other (See Comments)		
Destruction Method: <input checked="" type="checkbox"/> Pressure Grout <input type="checkbox"/> Drill Out <input type="checkbox"/> Excavate <input type="checkbox"/> Bail, Perf, & Backfill <input type="checkbox"/> Bail & Backfill <input type="checkbox"/> Other (See Comments)					
Well destroyed according to provisions of Santa Clara Valley Water District Permit? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (See Comments)					
GPS Coordinates: Lat: Long:					
Comments:					

Distribution: ORIGINAL-Permit File; YELLOW-City/County; PINK-Well File; GOLDENROD-Permittee